

Outline of Microarray Chip Technology approach

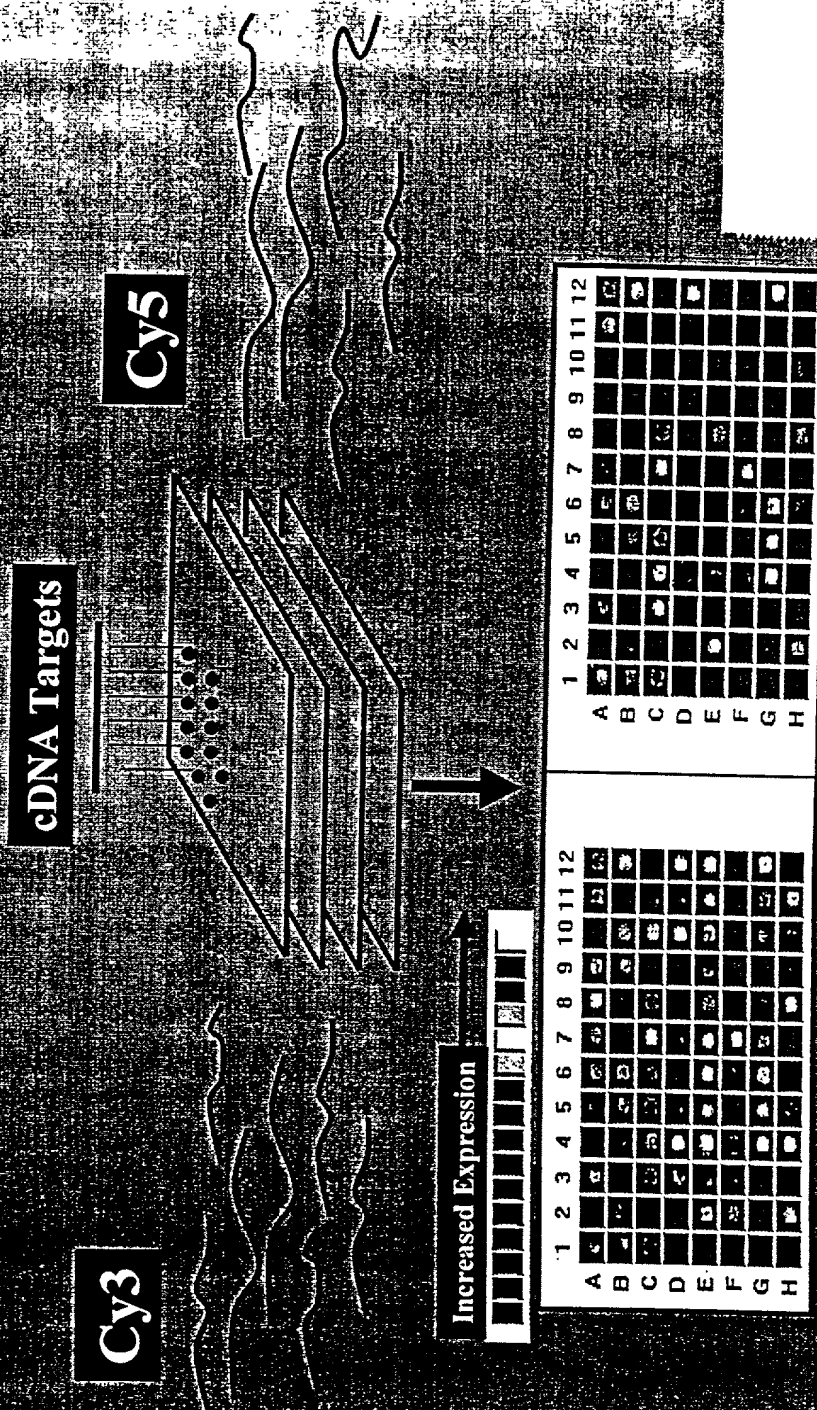


FIG. 1

General protocol for *in-vivo* whole gene CD8 T cell priming

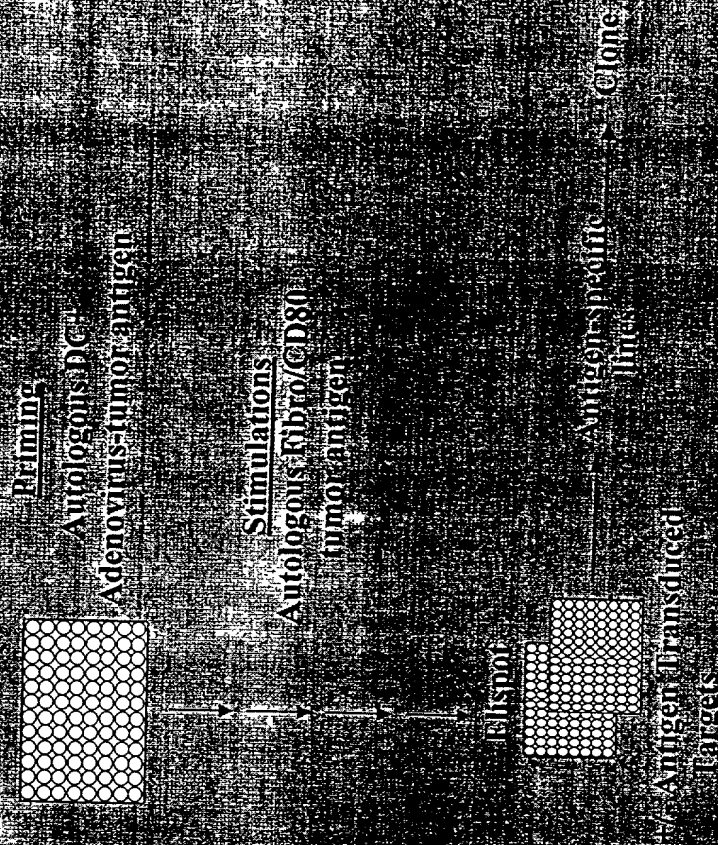


FIG. 2

General protocol for *in-vitro* whole gene CD4 T cell priming

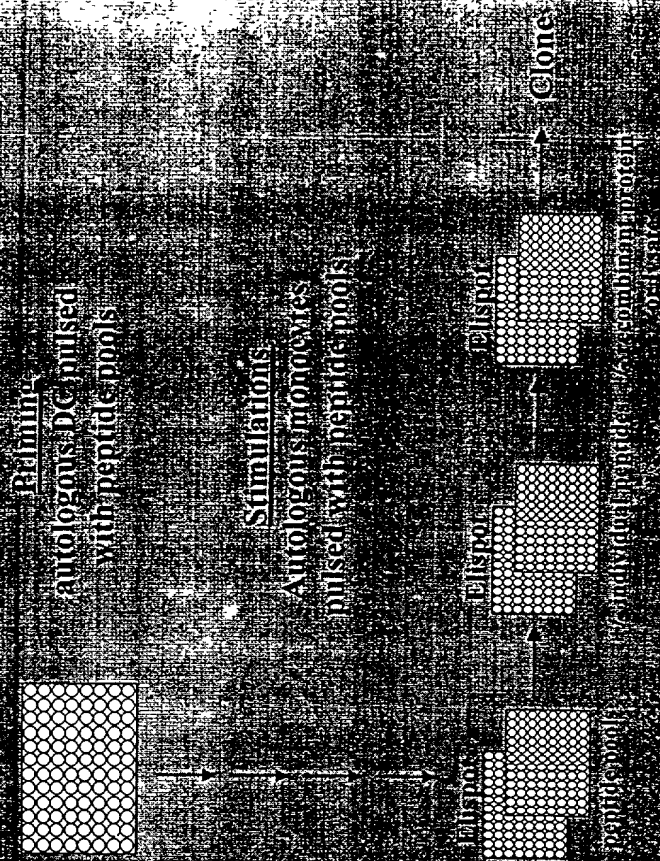


FIG. 3

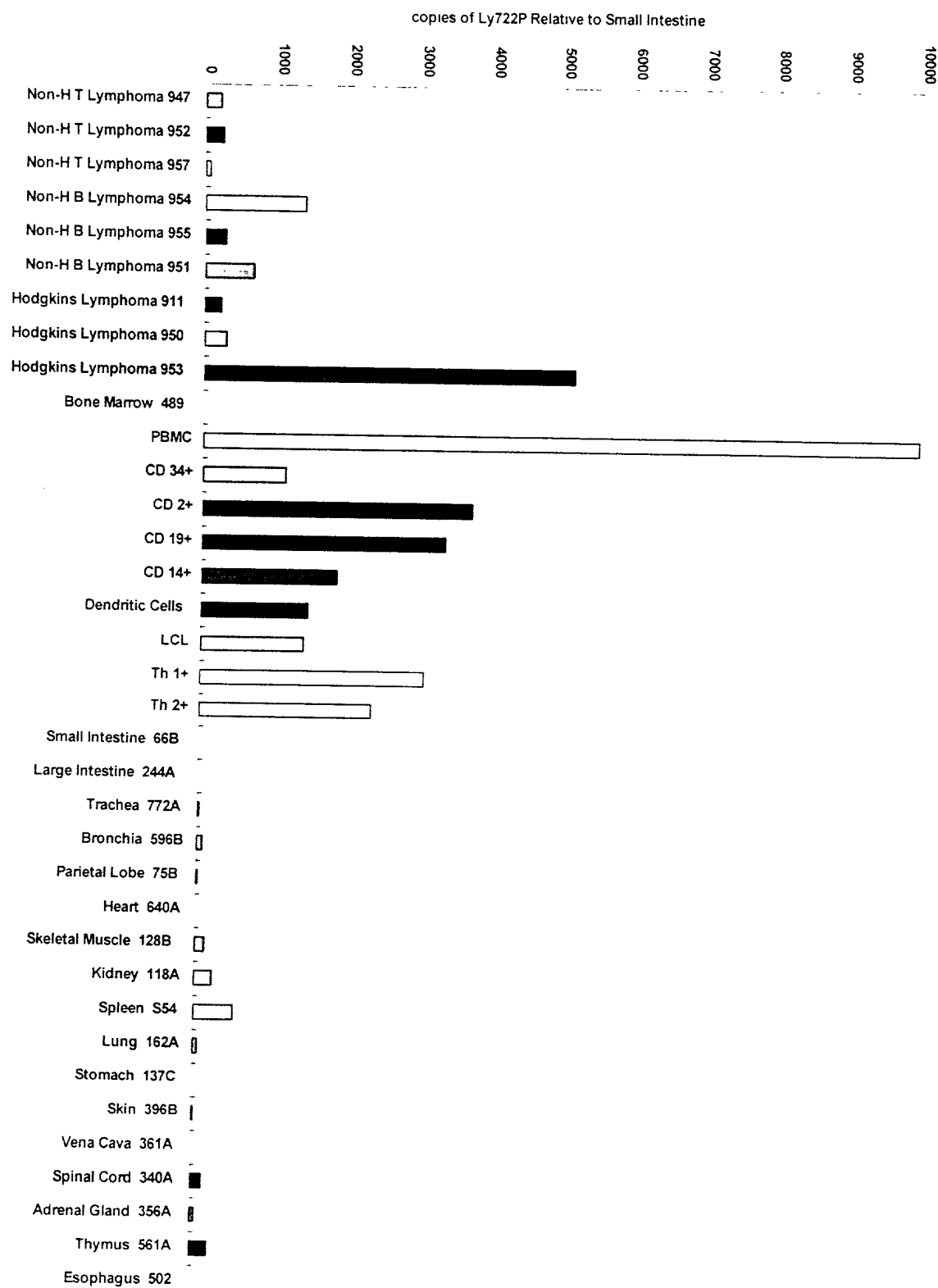


FIG. 4

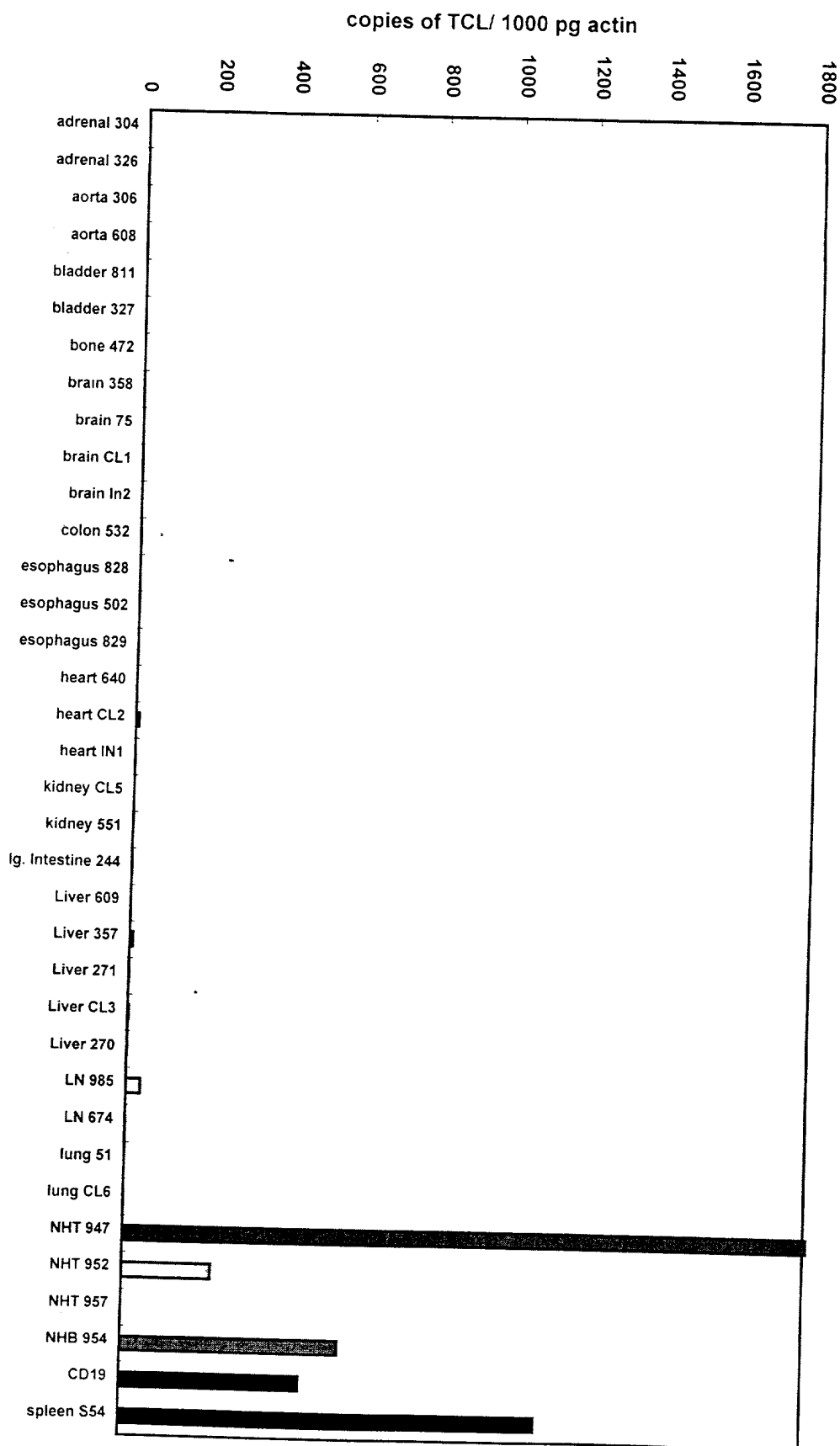


FIG. 5

Chromosome 1:

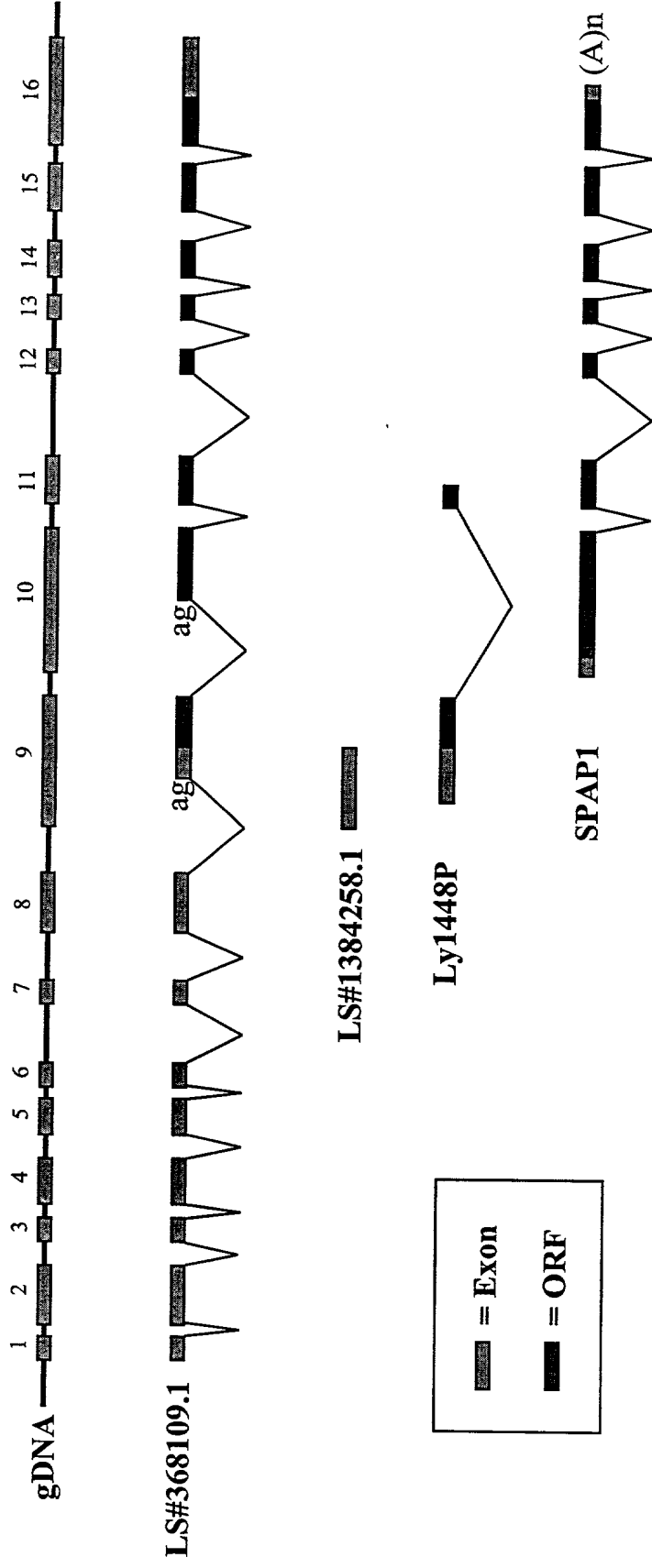


FIG. 6

A - AMPHI mid points of blocks.
R - Residues matching the Rothbard/Taylor motif.
D - Residues matching the IAd motif.
d - Residues matching the IEd motif.

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      5   10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGKKTQRSLSAELEIPAVKESDAGKYYCRADNGHVPIQSKVVNIIPVRIIPVSRPVLTLRSPGAQAQAAVGDLLLELHCE
.....AAAA.....AAAA.....AAAAAAAA.....RRRR.....RRRR.....R
.....DDDDDD.....DDDDDD.....
.....

      80   85   90   95  100  105  110  115  120  125  130  135  140  145  150
ALRGSPPILYQFYHEDVTIGNSSAPSGGGASFNLSLTAEHSGNYSCEANGLGAQCSEAVPVSISGPDGYRRDLM
.....AAAA.....AAA.....AAAA.....RRR.....RRRR.....DDDDDD.....
.....

     155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TAGVLWGLFGVLGFTGVALLLYALFHKISGESSATNEPRGASRPNPQEFTYSSPTPDMEELQPVIYVNVGSVDVDV
.....AAAA.....AAAA.....AAAA.....RRRR.....RR.....RR
R.RRRRRRRRRRRRR.....RRRR.....DDDDDD.....DDDDDD.....DDD
.....

     230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
VYSQVWSMQQPESANIRTLLENKDSQVIYSSVKKS
.....AAAA.....
RRR.....RRRR.....
DDD.....
.....

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FIG. 7

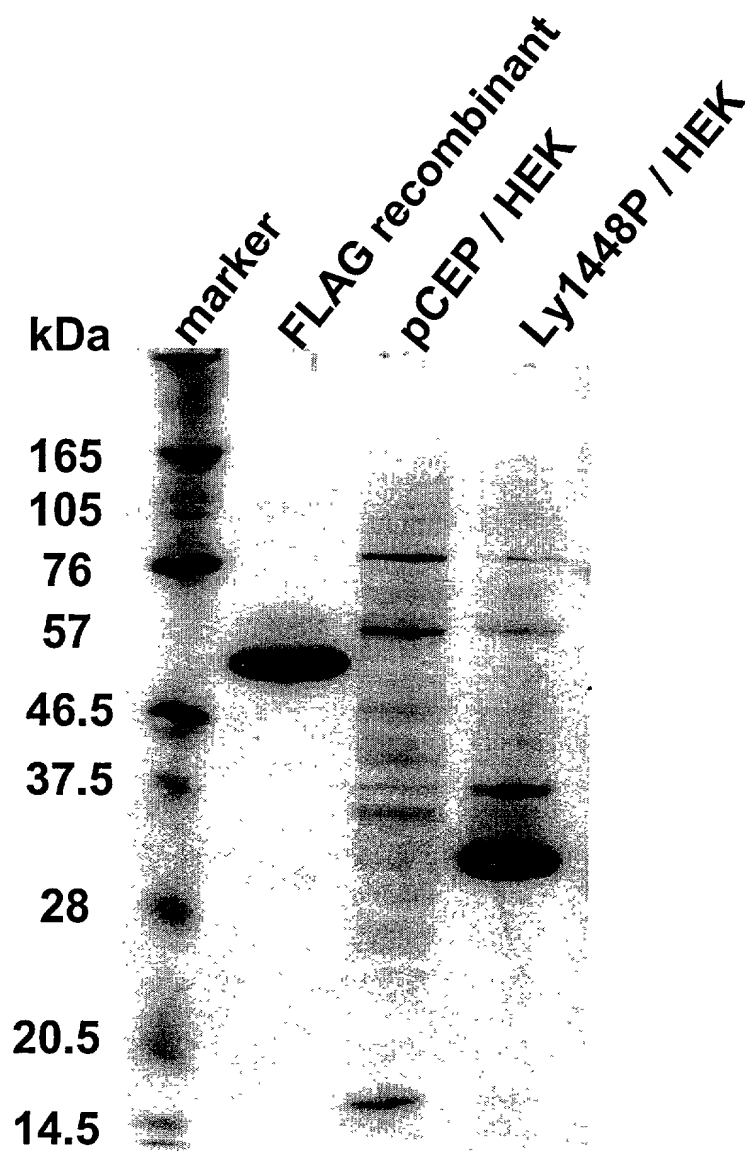


FIG. 8

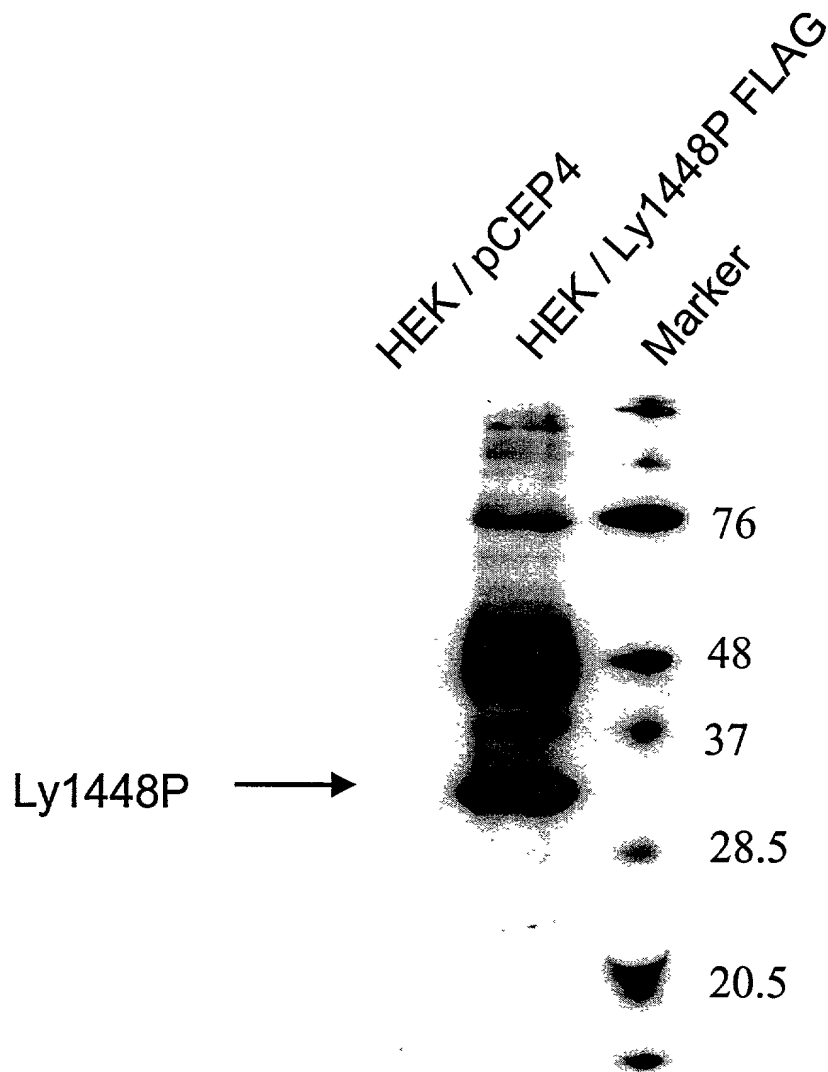


FIG. 9